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## PATENT ABSTRACTS OF JAPAN

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(21)Application number : 2000-039199 (71)Applicant : NIPPON TELEGR &  
TELEPH CORP <NTT>

(22)Date of filing : 17.02.2000 (72)Inventor : MASUDA KOJI

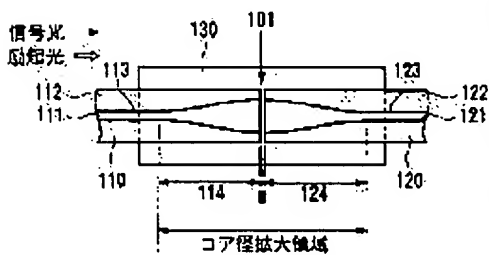
(54) CONNECTING STRUCTURE OF OPTICAL FIBER AND OPTICAL  
FIBER COMMUNICATION SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide connecting structure of an optical fiber and an optical fiber communication system capable of preventing damage in the connecting part owing to high propagation light power.

SOLUTION: In connecting structure of the optical fiber wherein a connecting optical fiber 110 is connected to a transmitting optical fiber 120 by physical contact, core diameter enlarging areas 114 and 124 enlarging the core diameter are provided in the connecting end parts of respective optical fibers 110 and 120 and

also a linearity holding part 130 holding linearity of the optical fibers 110 and 120 is provided within range including the core diameter enlarging areas 114 and 124. Thus, since the intensity of propagation light in the physical contact surface 101 is reduced, damage in the end surface of the optical fiber is prevented.



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